

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims

Claims 1-16 (cancelled)

Claim 17 (currently amended) A device to detect a state of a component, the device comprising:
a receiver disposed on the component and having a light-sensitive surface;
a transmitter disposed on the component at a distance from the receiver and configured to emit a focused beam outside of the component to the receiver; and
an evaluation unit.

Claim 18 (previously added) The device as recited in claim 17 wherein the state of the component include at least one of a deformation state, a loading state, and a movement of the component.

Claim 19 (previously added) The device as recited in claim 17 wherein the receiver includes at least one of a PSD transducer and an image processing element.

Claim 20 (currently amended) The device as recited in claim 17 wherein the focused beam includes at least one of a focused light beam, a focused electromagnetic wave, a focused acoustic wave, and a focused particle beam.

Claim 21 (previously added) The device as recited in claim 17 wherein the transmitter and the receiver are each disposed in a holder on the component in such a way that a deformation of the component effects a corresponding position shift of the beam.

Claim 22 (previously added) The device as recited in claim 17 further comprising a reflector within a path of the beam.

Claim 23 (previously added) The device as recited in claim 22 wherein the reflector reflects the beam towards the receiver.

Claim 24 (previously added) The device as recited in claim 22 further comprising a holder and wherein the reflector is connected to the component via the holder.

Claim 25 (previously added) The device as recited in claim 17 wherein the light-sensitive surface of the receiver has a resolution of at least 1000 d.

Claim 26 (previously added) The device as recited in claim 17 wherein the transmitter emits at least one laser beam.

Claim 27 (previously added) The device as recited in claim 17 wherein the transmitter, the receiver and the reflector are disposed in a flexible housing.

Claim 28 (previously added) The device as recited in claim 27 wherein the transmitter and the receiver are disposed on a first side of the housing and the reflector is disposed on an opposite second side of the housing.

Claim 29 (previously added) The device as recited in claim 17 further comprising at least one semi-transparent layer disposed within a path of the beam from the transmitter to the receiver.

Claim 30 (previously added) The device as recited in claim 17 wherein at least one of the transmitter and the receiver has a round shape.

Claim 31 (previously added) ° The device as recited in claim 17 wherein at least one of the transmitter and the receiver has a rectangular shape.

Claim 32 (previously added) The device as recited in claim 27 wherein the housing has one of a round and a rectangular shape

Claim 33 (previously added) The device as recited in claim 27 wherein the housing is in the form of a drill bore in the component.

Claim 34 (previously added) The device as recited in claim 17 wherein the receiver is associated with an evaluation logic circuit in order to determine the deformation of the component.

Claim 35 (previously added) The device as recited in claim 22 wherein the transmitter is disposed in a first holder and the reflector is disposed at a distance from the transmitter in a second holder, and the transmitter, receiver, and reflector are disposed on the component in a shared housing.

Claim 36 (currently amended) A device to detect various states of a component, the device comprising:

- a clamping element having at least two contact parts and defining a first bore;
- a plate clamped to the component using the clamping element, the plate defining a second bore aligned with the first bore;
- a receiver having a light-sensitive surface disposed on the plate;
- a transmitter disposed on the plate at a distance from the receiver, the transmitter configured to emit a focused beam outside of the component to the receiver.

Claim 37 (new) The device as recited in claim 17 wherein the focused beam is a punctiform beam.

Claim 38 (new) The device as recited in claim 36 wherein the focused beam is a punctiform beam.
